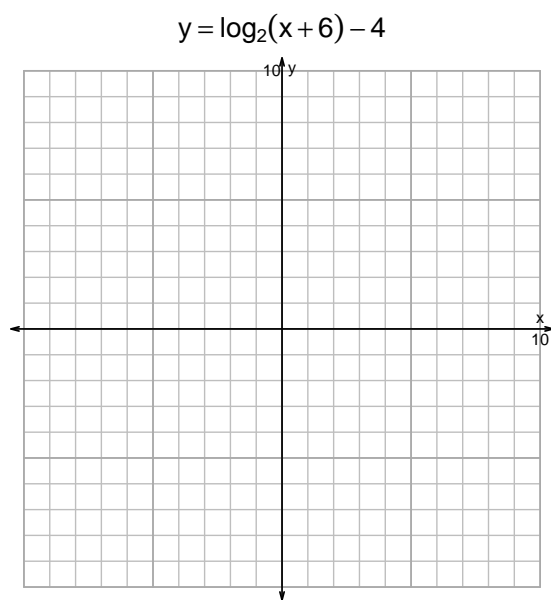
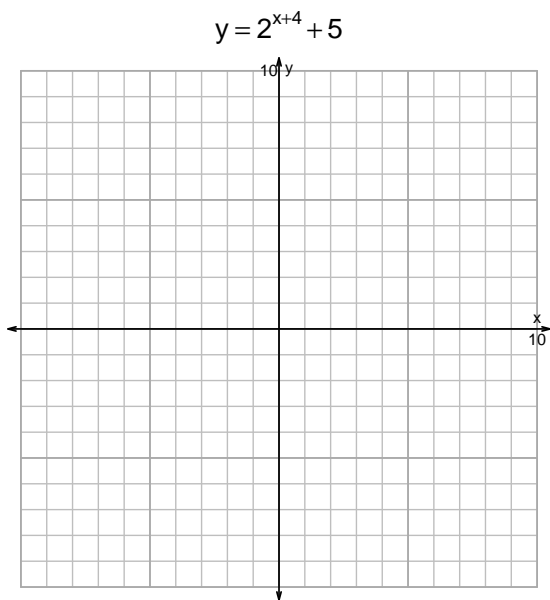


Name: \_\_\_\_\_

Date: \_\_\_\_\_

s18QUIZ: EXP LOG (QUIZ v259)

1. Graph  $y = 2^{x+4} + 5$  and  $y = \log_2(x + 6) - 4$  on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$-19 = \left(\frac{-3}{7}\right) \cdot 2^{5t/4}$$

3. An exponential function  $f(x) = 5.27 \cdot e^{-1.35x}$  is graphed below on a semi-log plot.



- a. Using the plot above, evaluate  $f(-2.7)$ .

- b. Express  $f^{-1}(x)$ , the inverse of  $f$ .

- c. Using the plot above, evaluate  $f^{-1}(0.8)$ .